

International Specialists in the Environment

720 Third Avenue, Suite 1700, Seattle, WA 98104 Tel: (206) 624-9537, Fax: (206) 621-9832

#### **MEMORANDUM**

DATE:

June 23, 2008

TO:

Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM:

Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ:

Inorganic Data Summary Check,

Bremerton Gasworks Properties, Bremerton, Washington

REF:

TDD: 07-01-0008

PAN: 002233.0178.01BR

The data summary check of 2 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K21

MJ8K36

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

## 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101

June 17, 2008

Reply To

Attn. Of: OEA-095

#### MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA,

Case# 37435, SDG: MJ8K21, Inorganic Analysis

FROM:

Donald Matheny, Chemist

Environmental Services Unit, OEA

TO:

Joanne LaBaw, Project Manager

Office of Environmental Cleanup (ECL-115)

CC:

Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Two (2) water samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K21 MJ8K36

A cursory assessment of the data indicates the following:

The matrix spike and duplicate sample analyses were compliant.

Serial dilution percent differences ranged from 18-61% for cobalt, lead, nickel and zinc with an indication of low bias. Values for these elements should be estimates.

## 1A-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K2	1

b Name: Bonner Analytical Testing Compa Contract: EPW06055

b Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K21

trix (soil/water): WATER Lab Sample ID: 0805065-01

vel (low/med):

LOW

Date Received: 05/21/2008

Solids: 0.0

ncentration Units (ug/L or mg/kg dry weight):

UG/L

	and 4.4 (4.0 (4.0 (4.0 (4.0 (4.0 (4.0 (4.0						
CAS No.	Analyte	Concentration	С	Q	М		
7440-36-0	Antimony	1.9	J ()		MS		
7440-39-3	Barium	21.5			MS		
7440-41-7	Beryllium	1.0	ប		MS		
7440-43-9	Cadmium	0.14	JQ		MS		
7440-47-3	Chromium	2.8	ĺ		MS		
7440-48-4	Cobalt	1.9		E	MS		
7440-50-8	Copper	4.9			MS		
7439-92-1	Lead	2.5		E	MS		
7439-96-5	Manganes <b>e</b>	454			MS		
7440-02-0	Nickel	5.8		E	MS		
7782-49-2	Selenium	0.88	JQ		MS		
7440-22-4	Silver	0.04	JO		MS		
7440-28-0	Thallium	0.26	JA		MS		
7440-62-2	Vanadium	4.7	<i>J</i> ()		MS		
7 <b>44</b> 0-66- <b>6</b>	Zinc	62.4		E	MS		

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					
1.					

# 1A-IN

# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

		_	********	-
M	J8	ĸз	6	

Lab Name:	Bonner An	alytical Te	sting Compa	Contract:	EPW06055	······································
Lab Code:	BONNER	Case No.:	37435	NRAS No.:	SDG NO.:	MJ8K21
Matrix (soi	l/water):	WATER		Lab Sample ID:	0805065-02	

Date Received:

Level (low/med):

Solids:

<u>...</u>

0.0

loncentration Units (ug/L or mg/kg dry weight):

UG/L

05/21/2008

CAS No.	Analyte	Concentration	С	Q	М		
7440-36-0	Antimony	2.0	U		MS		
7440-39-3	Barium	5840			MS		
7440-41-7	Beryllium	13.6			MS		
7440-43-9	Cadmium	2.0			MS		
7440-47-3	Chromium	1090			MS		
7440-48-4	Cobalt	89.5		E	MS		
7440-50-8	Copper	293			MS		
7439-92-1	Lead	179		E	MS		
7439-96-5	Manganese	8840		D	MS		
7440-02-0	Nickel	458		E	MS		
7782-49-2	Selenium	2.9	<i>3</i> (2)	,	MS		
7440-22-4	Silver	0.72	J()		MS		
7440-28-0	Thallium	1.7			MS		
7440-62-2	Vanadium	926			MS		
7440-66-6	Zinc	417		E	MS		

olor Before:	BROWN	Clarity Before:	CLOUDY	Texture:		
olor After:	COLORLESS	Clarity After:	CLEAR	Artifacts:		
ě					•	
omments:						*****
_00		· 1				
. para	**************************************	**************************************				